

s/n: 10/716,500
date: 6/21/06

MORII-YOSHIHIRO\$9.in. or FUJITA-SHIGERU\$9.in. or KOBAYASHI-SHIGEO\$9.in. or TSUYUKI-TATSUYA\$9.in. or TAKEMOTO-226 HIROSHI\$9.in. or ANDO-JUN\$9.in.	US-PGPUB; USPAT; IBM_TDB	6/21/06 9:47
64 1 and (lens or optic\$4) ("4496416" "5267088" "5274732" "5412509" "5465126" 11 "5508851").PN. OR ("5715099").URPN. ("5715099" "5903401" "5933248" "5936239" "6073844" 7 "6157467" "6239885").PN. OR ("7023588").URPN. ((359/819,811,822,809) or (396/52) or (362/455) or (353/100) or 6448 (358/482,483,474)).CCLS.	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR	6/21/06 9:47 6/21/06 9:48
2028 (359/819,811).CCLS.	US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB	6/21/06 9:50 6/21/06 10:46 6/21/06 10:33
45409 (image with scan\$4) and (light or illumination) and focus\$4	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	6/21/06 10:39 6/21/06 10:41
1141 5 and 7	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	6/21/06 10:41
1071 8 not 6 ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 2352 (353/100)).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/21/06 10:13
36 lens with mount and (L adj bracket) imag\$4 same (lens or optic\$4) same ((charge\$2 adj couple\$2) or ccd or photo\$2detector or photo\$2sensor or detectoor or sensor or 134925 transceiver or receiver)	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	6/21/06 9:45 6/20/06 18:46 6/20/06 18:46
391 S114 and S115	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	6/20/06 18:44
((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 4898 (353/100)).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/20/06 18:43
((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 3996 (353/100)).CCLS. ("4493573" "4795284" "4846595" "5358165" "6000784" "6127012" "6217684" "6224709" "6424434").PN. OR 11 ("6693751").URPN.	US-PGPUB; USPAT; USOCR US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	6/20/06 18:38 6/20/06 18:28
2 ("6693751").PN.		
2187 I-bracket I\$bracket or (I adj bracket)	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
346319 bracket (intermediate with member with (adhesive epoxy glue adher\$4)) and 799 substrate (intermediate with member with (adhesive epoxy glue adher\$4)) and 357 substrate and parallel (intermediate with member with (adhesive epoxy glue adher\$4)) and 154 substrate and parallel and optical (print with head) and (((circuit or control) with board) with (hole or 362 aperture))	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15 6/20/06 18:15 6/20/06 18:15 6/20/06 18:15 6/20/06 18:15

1888 (print with head).ti.	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
639 ((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.) and 342 substrate	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
707 ((print with head).ti.) and substrate	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
40 ((print with head).ti.) and (substrate near2 (hole or aperture))	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
1208 solid with state with image with input	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
516 (solid with state with image with input) and substrate	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
1 6424434.URPN.	USPAT	6/20/06 18:15
1 6424434.URPN.	USPAT	6/20/06 18:15
2460 (358/474).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/20/06 18:15
2757 (358/474,1.5,315,255,432,433).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/20/06 18:15
((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 3996 (353/100)).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/20/06 18:15
2757 (358/474,1.5,315,255,432,433).CCLS.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/20/06 18:15
((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 5854 (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.) (((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
499 (objective adj lens) ((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
166 (objective adj lens)) and adhesive ((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
166 (objective adj lens)) and adhesive ((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
115 (objective adj lens)) and adhesive) and parallel	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
1 ("6224709").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/20/06 18:15
1 (solid with state with image with input with unit).ti.	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
1 4555169.PN.	USPAT	6/20/06 18:15
1 4555169.PN.	USPAT	6/20/06 18:15
1 ("6224709").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	6/20/06 18:15
92 lens with mount and (L adj bracket) ("5528118" "5623853" "5668672" "5689377" "5874820" 5 "2002/0080339").PN.	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
12 (l-bracket l\$bracket or (l adj bracket)) with adhesive	USPAT	6/20/06 18:15
2 (("5257138") or ("6224709")).PN.	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
((print with head) and (((circuit or control) with board) with (hole or 33 aperture))) and (intermediate with member)	US-PGPUB; USPAT; USOCR; IBM_TDB	6/20/06 18:15
98 (print with head) and (ccd with (hole or aperture))	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15

(substrate with (aperture or hole) with align\$5 with (optical near		
("4011009" "4736132" "4856863" "4900119" "5078479"		
"5212743" "5311360" "5459610" "5500761" "5654819"		
"5659418" "5661592" "5701193" "5745271" "5751469"		
"5825528" "5835255" "5841579" "5847859" "5850492"		
"5870221" "5914804" "5943155" "5943158" "5943454"		
"5949571" "5974207" "5986796" "6002513" "6061166"		
15 "6172796" "6268952").PN.) axis)) and print	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
11 5343332.URPN.	USPAT	6/20/06 18:15
("4016504" "4034949" "4059343" "4118109" "4319807"		
"4623225" "4764983" "4768184" "4819096" "4822974"		
"4850686" "4948233" "4997250" "5077905" "5084783"		
16 "5155633").PN.	USPAT	6/20/06 18:15
(((((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.) and		
25 (substrate near2 (hole or aperture))	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
(solid with state with image with input) and (substrate near2 (hole or		
56 aperture))	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
((solid with state with image with input) and (substrate with (hole or		
55 aperture))) and lens	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
87 (image with scan\$4 with unit).ti.	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
2 ("5936783" "6128120").PN.	USPAT	6/20/06 18:15
4 ("4126386" "4259004" "4861983" "5067782").PN.	USPAT	6/20/06 18:15
13 4555169.URPN.	USPAT	6/20/06 18:15
7 5136326.URPN.	USPAT	6/20/06 18:15
3 ("6224709") or ("6424434") or ("5136326").PN.	US-PGPUB; USPAT; USOCR;	
	IBM_TDB	6/20/06 18:15
(((((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or		
(353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and		
72 (objective adj lens)) and adhesive) and parallel) and perpendicular	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
109 (print with head) same board same align\$4	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
(solid with state with image with input) and (substrate with (hole or		
106 aperture))	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
149 (solid with state with image with input with unit) and lens	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
substrate with (aperture or hole) with align\$5 with (optical near		
("4011009" "4736132" "4856863" "4900119" "5078479"		
"5212743" "5311360" "5459610" "5500761" "5654819"		
"5659418" "5661592" "5701193" "5745271" "5751469"		
"5825528" "5835255" "5841579" "5847859" "5850492"		
"5870221" "5914804" "5943155" "5943158" "5943454"		
"5949571" "5974207" "5986796" "6002513" "6061166"		
235 "6172796" "6268952").PN.) axis)	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
217 solid with state with image with input with unit	US-PGPUB; USPAT; IBM_TDB	6/20/06 18:15
(((((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or		
(353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and		
117 (objective adj lens)) and adhesive	US-PGPUB; USPAT; IBM_TDB	9/15/03 14:45
(((((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or		
(353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and		
117 (objective adj lens)) and adhesive	US-PGPUB; USPAT; IBM_TDB	9/15/03 14:45
((((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or		
(353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and		
81 (objective adj lens)) and adhesive) and parallel	US-PGPUB; USPAT; IBM_TDB	9/15/03 14:45

53	(((((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and (objective adj lens)) and adhesive) and parallel) and perpendicular	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB	9/15/03 14:45 9/15/03 14:42
1590	(358/474,1.5,315,255,432,433).CCLS. (((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.)) and 368 (objective adj lens)	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB	9/15/03 14:36 9/15/03 14:35
1483	(358/474,1.5,315,255,432,433).CCLS. ((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 2442 (353/100)).CCLS. (((359/819,811,822,813,818,820,821) or (396/526) or (362/455) or 4029 (353/100)).CCLS.) or ((358/474,1.5,315,255,432,433).CCLS.) (solid with state with image with input) and ((358/474, "1.5", "315", 11 "255", "432", "433").CCLS.)	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB	9/15/03 14:35 9/15/03 14:35
3	("6224709") or ("6424434") or ("5136326")).PN.	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB	5/9/03 14:35 5/9/03 14:34
1294	(358/474).CCLS.	US-PGPUB; USPAT; IBM_TDB	5/9/03 14:34
41	(image with scan\$4 with unit).ti.	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; USOCR; IBM_TDB	5/9/03 13:49 5/9/03 13:49
1	("6224709").PN.	USPAT	5/9/03 13:40
1	4555169.PN.	USPAT	5/9/03 13:36
6	5136326.URPN.	USPAT	5/9/03 13:35
12	4555169.URPN.	USPAT	5/9/03 13:34
0	6424434.URPN.	USPAT	5/9/03 13:34
0	6424434.URPN.	USPAT	5/9/03 13:34
1	4555169.PN.	USPAT	5/9/03 13:30
4	("4126386" "4259004" "4861983" "5067782").PN.	USPAT	5/9/03 13:29
2	("5936783" "6128120").PN.	USPAT	5/9/03 11:14
1	(solid with state with image with input with unit).ti.	US-PGPUB; USPAT; IBM_TDB	5/9/03 11:06
119	solid with state with image with input with unit	US-PGPUB; USPAT; IBM_TDB	5/9/03 11:04
80	(solid with state with image with input with unit) and lens	US-PGPUB; USPAT; IBM_TDB	5/9/03 10:57
774	solid with state with image with input ((solid with state with image with input) and (substrate with (hole or 22 aperture))) and lens (solid with state with image with input) and (substrate near2 (hole or 26 aperture))	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB	5/9/03 10:46 5/9/03 10:44
302	(solid with state with image with input) and substrate (solid with state with image with input) and (substrate with (hole or 59 aperture)) (((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.) and 15 (substrate near2 (hole or aperture))	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB	5/9/03 10:43 5/9/03 10:38
27	((print with head).ti.) and (substrate near2 (hole or aperture)) (((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.) and 236 substrate	US-PGPUB; USPAT; IBM_TDB US-PGPUB; USPAT; IBM_TDB	5/9/03 10:35 5/9/03 10:34
520	((print with head).ti.) and substrate	US-PGPUB; USPAT; IBM_TDB	5/9/03 10:34

450 ((inkjet or (ink with jet) or ink\$2jet) with print with head).ti.	US-PGPUB; USPAT; IBM_TDB	5/9/03 10:27
1475 (print with head).ti.	US-PGPUB; USPAT; IBM_TDB	5/9/03 10:26
72 (print with head) same board same align\$4 substrate with (aperture or hole) with align\$5 with (optical near (("4011009" "4736132" "4856863" "4900119" "5078479" "5212743" "5311360" "5459610" "5500761" "5654819" "5659418" "5661592" "5701193" "5745271" "5751469" "5825528" "5835255" "5841579" "5847859" "5850492" "5870221" "5914804" "5943155" "5943158" "5943454" "5949571" "5974207" "5986796" "6002513" "6061166" 132 "6172796" "6268952").PN.) axis) ("4016504" "4034949" "4059343" "4118109" "4319807" "4623225" "4764983" "4768184" "4819096" "4822974" "4850686" "4948233" "4997250" "5077905" "5084783" 16 "5155633").PN. 9 5343332.URPN. (substrate with (aperture or hole) with align\$5 with (optical near (("4011009" "4736132" "4856863" "4900119" "5078479" "5212743" "5311360" "5459610" "5500761" "5654819" "5659418" "5661592" "5701193" "5745271" "5751469" "5825528" "5835255" "5841579" "5847859" "5850492" "5870221" "5914804" "5943155" "5943158" "5943454" "5949571" "5974207" "5986796" "6002513" "6061166" 8 "6172796" "6268952").PN.) axis)) and print	US-PGPUB; USPAT; IBM_TDB	5/8/03 19:27
	USPAT	5/8/03 19:09
	USPAT	5/8/03 19:06
66 (print with head) and (ccd with (hole or aperture)) (print with head) and (((circuit or control) with board) with (hole or 232 aperture)) ((print with head) and (((circuit or control) with board) with (hole or 27 aperture))) and (intermediate with member)	US-PGPUB; USPAT; IBM_TDB	5/8/03 18:58
	US-PGPUB; USPAT; IBM_TDB	5/8/03 18:54
	US-PGPUB; USPAT; IBM_TDB	5/8/03 18:40
2 (("5257138") or ("6224709")).PN. (intermediate with member with (adhesive epoxy glue adher\$4)) and 87 substrate and parallel and optical (intermediate with member with (adhesive epoxy glue adher\$4)) and 219 substrate and parallel (intermediate with member with (adhesive epoxy glue adher\$4)) and 511 substrate	US-PGPUB; USPAT; USOCR; IBM_TDB	5/8/03 18:37
	US-PGPUB; USPAT; IBM_TDB	4/17/03 14:21
	US-PGPUB; USPAT; IBM_TDB	4/17/03 14:20
	US-PGPUB; USPAT; IBM_TDB	4/17/03 14:19
1 ("6224709").PN.	US-PGPUB; USPAT; USOCR; IBM_TDB	4/17/03 14:16
6 (l-bracket l\$bracket or (l adj bracket)) with adhesive	US-PGPUB; USPAT; IBM_TDB	4/17/03 14:14
1501 l-bracket l\$bracket or (l adj bracket) ("5528118" "5623853" "5668672" "5689377" "5874820" 5 "2002/0080339").PN.	US-PGPUB; USPAT; IBM_TDB	4/17/03 13:40
	USPAT	4/17/03 13:39
269106 bracket (((359/819, "811", "822", "813", "818", "820", "821") or (396/526) or 154 (362/455) or (353/100)).CCLS.) and bracket (((359/819, "811", "822", "813", "818", "820", "821") or (396/526) or (362/455) or (353/100)).CCLS.) and (l-bracket l\$bracket or (l adj 2 bracket))	US-PGPUB; USPAT; IBM_TDB	4/17/03 13:34
	US-PGPUB; USPAT; IBM_TDB	4/17/03 13:34
	US-PGPUB; USPAT; IBM_TDB	4/17/03 13:33